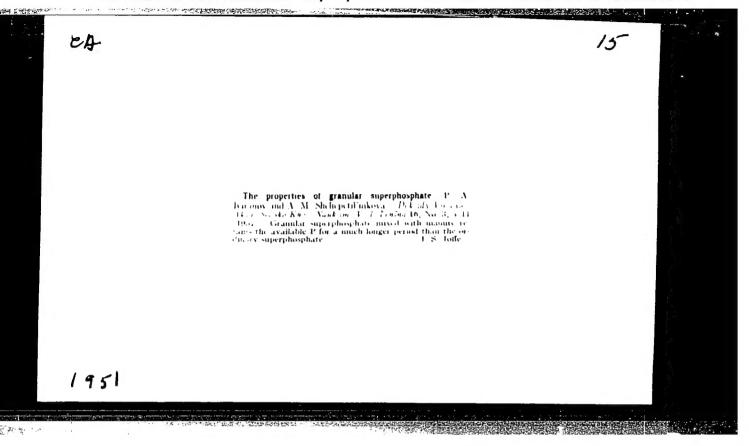
SCHEPETIL HIKOVA, A. M.	PA 171T4	
17174	M. Shchepetil'nikova, Cand Agr khoz Nauk" No 9, pp 3-13 grphosphates 2 - 3 times superi in acid podsolic soils; large superior to small granules ic superphosphates with seed b reduces % of germination and en ing, but neutralization surface plants, Nutrition (Contd) Se ting with chalk prevents this of preading of water-sol P205 int ile, advises application of sup- period when soil cultivation for Seven tables. Submitted 20 M	USSR/Biology - Plants, Nutrition Sep 50 Fertilizers "Properties of Granulated Fertilizers." Acad P.



SHCHEPETIL'NIKOVA, O.G.

Studies on phosphorus metabolism in the liver in experimental tuberculosis. Vop. med. khim. 7 no. 1:16-21 Ja-F '61.

(MIRA 14:4)

1. The Moscow Research Institute of Tuberculosis Ministry of Health of the R.S.F.S.R.

(LIVER) (PHOSPHORUS METABOLISM) (TUBERCULOSIS)

SHCHEPETIL'NIKOVA, O. G., kand. med. nauk

Study of the effect of saluzide on the metabolism of phosphorus compounds in the liver in experimental tuberculosis by means of radioactive phosphorus. Probl. tub. no.2:83-91 '62. (MIRA 15:2)

1. Iz Moskovskogo nauchno-issledovatel skogo instituta tuberkuleza Ministerstva zdravookhraneniya RSFSR (dir. - kandidat meditsinskikh nauk V. F. Chernyshev, zam. dir. po nauchnoy chasti prof. D. D. Aseyev)

(PHOSPHORUS_METABOLISM) (LIVER_TUBERCULOSIS)
(SALUZIDE)

SHCHEPETIL'NIKOVA, V.A., kand.sel'skokhozyaystvennykh nauk

Biological features of Sympherobius amicus Nav. as a function of meteorological conditions. Trudy VIZR no.1:90-101 '48. (MIRA 11:7)

(Lacewing flies)

SHCHEPFTIL'NIKOVA, V.A.

25802

Otsenka sistemy meropriyatiy po bor'be s cherepashchkoy (eurygaster integriceps Put). V usloviyakh kazakhstana. Trudy Vsesoyuz. in-ta zashchity rasteniy, vyp. 2. 1949. S. 90-103 - Bibliogr: 13 Nazv.

SO: Letopis' No. 34

"The results of many power of work in the field of biological rethods of a rela-insects".

Theoretical and fractical ork further out by Entarologists. reported a self-district designment, seen that all self-districtly, stills, h-9 Dec 1997

Testrik All of E. 1998, v. 20, No. 1, p. 109-30 (author dilparov, 1. 8.)

Santapatil Nill 19, VA

USCR / General and Special Zoology. Insects. Insects and Arachnids. Biological Method of Controlling

Insects and Arachnids.

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95557.

Author : Shchepetil'nikova, V. A.

: Conformities hich Datermine Effectiveness of Inst Title

Entomonhaga.

Orig Pub: Zh. obshch. biol, 1957, 10, No 5, 381-394.

Abstract: Multinuclear entomophaga, (E) which do not possess the power of adapting themselves to the life

cycle of a definite pest and are in need of additional hosts, are not capable to inhibit its numbers (Trichogrammatidae, Telenomus, parasiting on the Eurygaster integriceps). The con-

Card 1/3

30

USSR / General and Special Zoology. Insects. Insects and Arachnids. Biological Method of Controlling Insects and Arachnids.

Abs Jour: Ref Zhur-Biol., No 21, 1958, 93537.

The state of the s

Abstract: formity of the relation of its life cycle to that of its host increases with the growth of the parasite's specialization. The ability to inhibit the host is especially clearly expressed in mononuclear (2). However, even specialized parasites and predators (Aphelinus mali, Rodolia cardinalis) possess a much narrower ecologic flexibility than their hosts. As a consequence the latter do not perish, insuring the possibility of prolonged simultaneous existence between plant-eating insects and their specialized entomophaga. Then using the latter, it is adequate, as a rule to populate with them new

Card 2/3

U BR / General and Special Zoology. Insects. Insects and Lrachnids. Biological Lethod of Controlling Insects and Lrachnids.

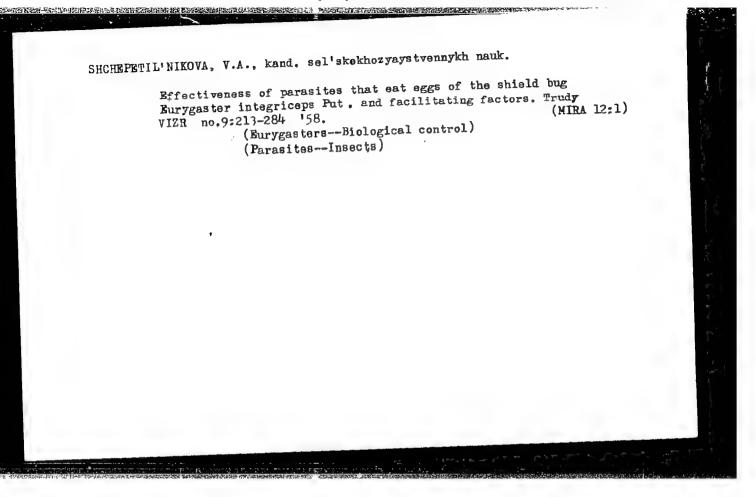
Abs Jour: Ref Zhur-Biol., No 21, 1958, 96557.

Abstract: regions of the spread of the pest. On the contrary, in case of multinuclear entomophaga it is necessary to resort to their sensonal colonization. -- G. A. Viktorov.

0 11 VIN 0010 V

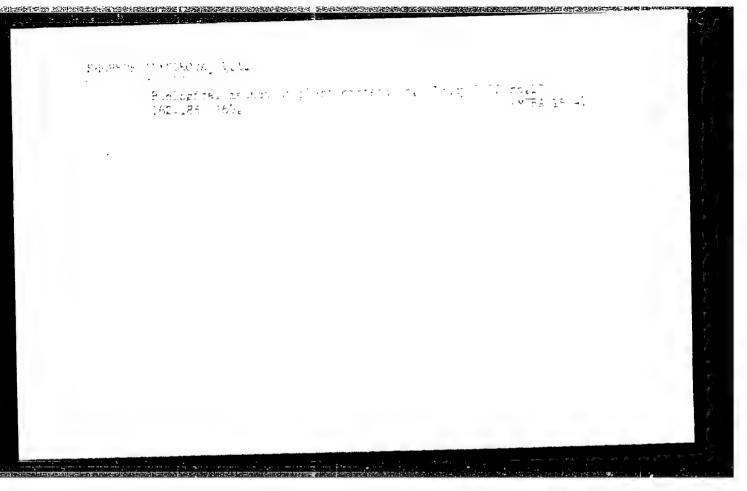
Card 3/3

31



YEVLAKHOVA, Ariadna Aleksandrovna; SHVETSOVA, Ol'ga Ivanovna; SHCHEPETIL'-NIKOVA, Valentina Androyovna; REUTSKAYA, O.Ye., red.; CHUNAYEVA, Z.V., tekhn. red.; BARANOVA, L.G., tekhn. red.

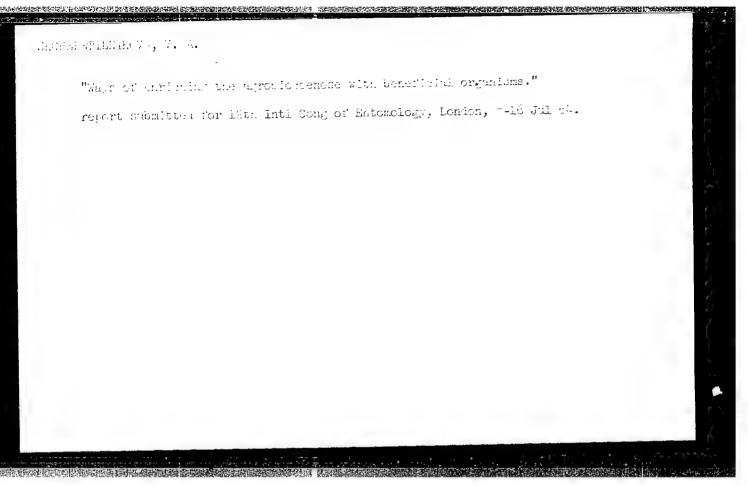
[Biological control of injurious insects] Biologicheskie metody bor'by s vrednymi nasekomymi. Leningrad, Gos. izd-vo sel'khoz. (MIRA 14:10) lit-ry, 1961. 94 p. (Insects, Injurious and beneficial)



SHCHEPETIL'NIKOV, V.A., prof., doktor tekhn. nauk

Balancing of the crankgear. Trudy MIIT no.195:5-19 '64.

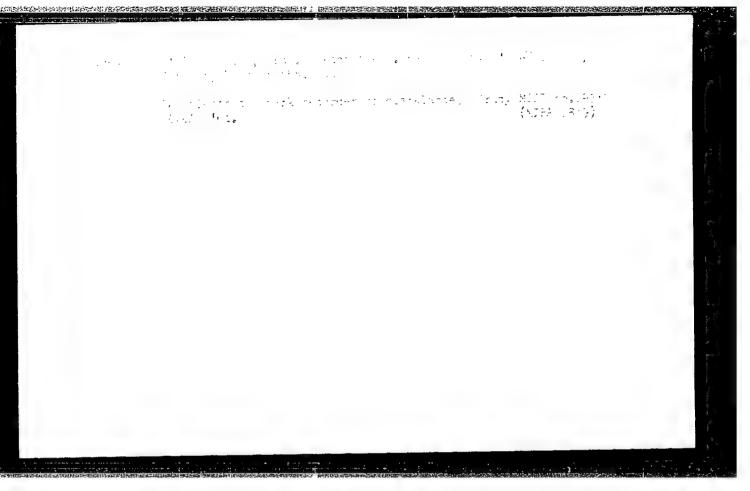
(MIRA 18:9)



STREAM ILLINGUE, V.F., rrof., doktor fekha. nauk; halfanuli, 702., fitte nt, kand. tokha. nauk; MAKSIMOV, P.A., inch.

Causes of the deterioration of the elastic elements of the type RK-lA drive of generators mounted under passenger cars.

Trudy MHIT no.195:20-33 *64. (MIRA 18:9)



SHCHEFETIL'NIKGVA, V.A.; CHURAKGVA, B.M.

Gurrent problems of the acclimatization of entomophagous insects in the U.S.S.R. Trudy VER no. 21 pt. 1:5-13

'64.

(MIRA 18:12)

SHCHEPETILOV, A.F. Intricacy of shoe styles. Leg.prom. 1th no.2:4-6 F '54. (MLRA 7:5) 1. Zamestitel' nachal'nika Glavobuvi MPTShP. (Boots and shoes)

SHCHEPETILOV, A.F., inzhener.

At the "Paris Commune" factory. Leg.prom.16 no.2:44-45 F '56.

1.Direktor fabriki "Parizhskaya Kommuna".

(Moscow—Shoe industry)

SHCHEFETILOV, A.F.

New productive capacity of the leather industry of the R.S.F.S.R.

Kozh.-obuv.prom. 3 no.9:9-11 S '61.

(Leather industry)

(Leather industry)

5/125/62/000/007/003/012 D040/D113

Attachin corner tips

Explain pressure during helding produces joints with higher strength than 1.0 or 2.0 K/km² pressure; (4) joints with powder nickel and permalloy foil layers can be described of 25 Kg/km² and 16.3417.2 Kg/km² respectively; (5) the proper when the welding chamber is approximately 10⁻³ mm of mercury; (6) the surface of the chief shank must be milled, and that of the carbide tip ground, and both have to be degreesed by acetone; (7) operational tests have shown that the durabilies of choters, diffusion welded in a vacuum, is 2 - 2.5 times higher compared with brice curring tools. There are 7 figures and 2 tables.

Absectiviton: Moskovskiy tekhnologicheskiy institut myaso-molochnoy promyshlennosti

(Moscow Technological Institute of the Meat and Milk Industry)

JUDMITTIE: February 1, 1962

Juni 2/2

SHCHEPETINA, L.M., prepodavatel; TSYPIN, Yu.Ya., otv.red.; AFANAS'YEV, V.S., apeta.red.

[Assignments and practical instructions for the course "Meteorology" for students of agricultural schools] Uchebnoe zadanie i metodicheskie ukazaniia po kursu "Meteorologiia" dlia uchashchikhsia sel'skokhoziaistvennykh tekhnikumov. 1958 11 p. (MIRA 12:3)

Vsesoyuznyy zaochnyy seliskokhozyaystvennyy tekhnikum.
 (Meteorology)

BOHOSLOVSKIY, V.N.; SHCHEPETKIN, A.A.

X-ray determination of oxygen parameters in spinel structure ferrates. Fiz.met.i metalloved. 10 no.1:24-28 J1 '60.

(MIRA 13:8)

1. Institut metallurgii Uraliskogo filiala AN SSSR.

(Ferrates--Testing) (X rays--Diffraction)

 STAFEYEVA, N.M.; BOGOSLOVSKIY, V.N.; SHCHEPETKIN, A.A.; ZHURAVLEVA, M.G.; CHUFAROV, G.I.

Equilibrium conditions in the reduction of copper ferrite CuFe₂0₄ by hydrogen. Dokl. AN SSSR 146 no.4:874-876 0 162. (MIRA 15:11)

- 1. Institut metallurgii Ural'skogo filiala AN SSSR.
- 2. Chlen-korrespondent AN SSSR (for Chufarov).
 (Copper ferrate)
 (Hydrogen)

S/126/63/015/002/004/033 E039/E420

AUTHORS:

Bogoslovskiy, V.N., Startseva, I.Ye., Zhuravleva, M.G.,

Shchepetkin, A.A., Chufarov, G.I., Shur, Ya.S.

TITLE:

The effect of phase composition on the magnetic properties of magnesium-manganese ferrite with a

rectangular hysteresis loop

PERIODICAL: Fizika metallov i metallovedeniye, v.15, no.2, 1963,

181-186

TEXT: A magnesium-manganese ferrite with a rectangular hysteresis loop and with a sufficiently simple composition was used to facilitate the interpretation of the results obtained. Toroidal samples 12 mm outer dia, 8 mm inner dia and 3 mm high were used. After a second annealing in air at 1200°C they were cooled in a CO₂ atmosphere. The composition was Fe₂O₃ - 42.8 mol%, MgO - 14.4%, MnO - 42.8% (as MnCO₃) which corresponds with the formula

 $(MgFe_2O_4)_{0.3}(MnFe_2O_4)_{0.6}(Mn_3O_4)_{0.1}$

The dependence of the coercive force H_{c} , the residual Card 1/2

S/126/63/015/002/004/033 E039/E420

The effect of phase ...

induction B_r , the maximum induction B_m , the induction in the field of 90 0e B_{90} , and B_r/B_m on the pressure of oxygen when annealing at $600\,^{\circ}\text{C}$ was investigated. B_r shows a steady decrease with increasing oxygen pressure up to 150 mm Hg, while for the other parameters there is little change for oxygen pressures above 50 mm. Maximum squareness of the hysteresis loop is obtained at 10 mm pressure of oxygen. A comparison of the results of physicochemical analysis, X-ray and magnetic investigation suggests that the spontaneous rectangularity of the hysteresis loop in this ferrite depends on the presence of the Mn3+ ion which leads to local distortions in the crystal lattice. There are 2 figures.

ASSOCIATIONS: Institut metallurgii UFAN SSSR

(Institute of Metallurgy UFAN USSR) Institut fiziki metallov AN SSSR

(Institute of Physics of Metals AS USSR)

SUBMITTED: August 10, 1962

Card 2/2

EWP(q)/EWT(m)/BDSAFFTC/ASD L 12902-63 S/0020/63/151/002/0347 AP3003555 ACCESSION NR: AUTHORS: Stafeyeva, N. M.; Shchepatkin, A. A.; Bogoslovskiy, V. N. Zhuravleva, M.G.; Chufarov, G.I., (Corr. member, Academy of Scien-AUTHORS: Stafeyeva, N. M.; Shchepetkin, A. V. N.: ces SSSR) Study of equilibrium condition. during hydrogen reduction of TITLE: ferrite Mg sub 0.5 Mn sub 0.5 Fe sub 2 0 sub 4 Doklady, v. 151, no. 2, 1963, 347-349 AN SSSR. SOURCE: TOPIC TAGS: equilibrium conditions, hydrogen, hydrogen reduction, ferrite, magnesium ferrite, manganese ferrite, solid phase, lattice, S-ray analysis ABSTRACT: Reduction of ferrite Mg sub .5Mn sub .5Fe204 was studied under equilibrium conditions at 800, 900 and 1000 degrees C. Partial pressure of oxygen during dissociation of the ferrite was calculated. Composition of solid phases existing during the various reduction stages was determined. Ferrite Mg sub .5Mn sub .5Fe2O4 is a solid solution of magnesium and manganese ferrites with a 1:1 molar ratio. The original sample was obtained by heating a mixture of the required

APPROVED FOR RELEASE: 03/14/2001 CIA-RDP86-00513R001548820003-0"

Card 1/3

L 12902-63 ACCESSION NR: AP3003555

amounts of MgO, MnO and Fe₂O₅ in CO₂ atmosphere at 1200 degrees for 30 hours. Reduction was carried out in a closed evacuated system through which a mixture of hydrogen and water vapor was circulated until equilibrium was reached. Water vapor was maintained at a pressure equal to that of saturated water vapor at O degrees C. Partial pressure of hydrogen in the gaseous equilibrium mixture was determined after freezing out the water vapor in a trap immersed in liquid nitrogen. Partial pressure of oxygen was determined from the values K = PHOO. Extent of reduction was determined from the hydrogen

consumption. A reduction of 100% was assumed for an oxide having the conposition Mg sub .5Mn sub .50. Solid phases existing at equilibrium were subjected to X-ray analysis (Debye method and with a camera with a 57.3mm diameter). Photographs were taken under illumination using a manganese filter. Relationships between partial pressure of oxygen at equilibrium and the extent of reduction of the ferrite Mg sub .5Mn sub .5Fe₂0₄ at 800, 900 and 1000 degrees C are presented. Relationships between the size of lattices

Card 2/3

L 12902-63

ACCESSION NR: AP3003555

in the three solid phases and the extent of reduction, as well as relationships between the concentration of the various phases and the extent of ferrite reduction are given. Orig. art. has: 3 figures.

ASSOCIATION: Institut metallurgii Ural'skogo filiala Akademii nauk SSSR, Sverdlovsk (Metallurgical Institute, Ural branch, Academy of

SUBMITTED: Ol Ar

01Apr63

DATE ACQ: 30Jul63

ENCL: 00

SUB CODE: CH

NO REF SOV: 004

OTHER: 006

Card 3/3

SHCHEPETKIN, A.A.; KHROMYKH, L.G.; BOGOSLOVSKIY, V.N.; ZHURAVLEVA, M.G.; CHUFAROV, G.I.

Equilibrium conditions during the reduction of magnesium ferrite by hydrogen. Dokl. AN SSSR 152 no.1:124-126 S '63. (MIRA 16:9)

l. Institut metallurgii Ural'skogo filiala AN SSSR. 2. Chlenkorrespondent AN SSSR (for Chufarov). (Magnesium ferrates) (Reduction, Chemical)

L 22897-65 EED-2/EWT(1)/EWT(m)/EWP(b)/EWP(t) IJP(c) JD ACCESSION NR: AP5001240 8/0126/64/018/005/0711/0716

AUTHOR: Bogoslovskiy, V.N.; Shchepetkin, A.A.; Startseva, I.Ye.; Antonov, V.K;, Chufarov, G.I.; Shur, Ya. S.

TITLE: Effect of the phase composition on the magnetic properties of magnesium-manganese-iron ferrite with a rectangular hysteresis loop

SOURCE: Fizika metallov i metallovedeniye, v. 18, no. 5, 1964, 711-716

TOPIC TAGS: ferrite magnetic property, magnesium ferrite, manganese ferrite, spinel solid solution, hysteresis loop

ABSTRACT: The object of this work was to find out whether the rectangularity of the hysteresis loop of Mg-Mn ferrites is related only to the presence of vacancies, or whether trivalent manganese ions also play a major part in this phenomenon. An Mg-Mn-Fe ferrite obtained from a mixture of 34 mol. % MgO, 8.5% MnO (in the form of MnCO₃) and 57.5% Fe₂O₃ and having a relatively high rectangularity coefficient of the hysteresis loop was investigated. X-ray diffraction was used to determine the concentration of the components of the spinel solid solutions, the magnetic characteristics were measured by the ballistic method, and changes in the composition of the solid solutions

Card 1/2

L 22897-65

ACCESSION NR: AP5001240

were induced by annealing the samples under various conditions. It was found that the increase or decrease in the rectangularity coefficient of the hysteresis loop is due primarily to the formation and disappearance of Mn³⁺ ions, although there is a simultaneous change in the concentration of vacancies in the spinel solid solution. Samples containing an appreciable quantity of vacancies but no Mn³⁺ ions have a rectangularity coefficient of less than 0.5. The authors conclude that the rectangular shape of the hysteresis loop of Mg-Mn-Fe ferrites obtained from a mixture containing over 50 mol. % Fe₂O₃ is due to the presence of Mn³⁺ ions which cause local distortions of the crystal structure of the spinel solid solution. Orig. art. has: 1 table, 1 figure, and 7 formulas.

ASSOCIATION: Institut metallurgii, Sverdlovsk (Metallurgical Institute); Institut fiziki metallov AN SSSR (Institute of the Physics of Metals, AN SSSR)

SUBMITTED: 02Nov63

ENCL: 00

SUB CODE: MM. EM

NO REF SOV: 007

OTHER: 010

Card 2/2

ACCESSION FOR APAG39618

5/0076/64/038/005/1135/1141

AUTHOR: Chuhepetkin, A. A. (Sverdlovsk); Stafeyeva, N. M. (Sverdlovsk); Begoslovskij, V. N. (Sverdlovsk); Zhuravleva, M. G. (Sverdlovsk); Chufarov, G. I. (Sverdlovsk)

TITES: Stray of equilibrium conditions during the reduction of magnesium-manganese ferrites

SOURCE: Discource fixioneskiy khimii, v. 38, no. 5, 1964, 1135-1141

TOPIC TAGE. capaesium-magnetise ferrite; ferrite dissociation, ferrite reduction, equilibries organic pressure, ferrite organilline structure, spinel phase, magne- , sieferrite, magnetite

ABSTRATE AND Applied to a symmetric association of magnesium-magnesic forcities of the composition ${\rm Mg_cMn_{1+c}Fe_2O_h}$ (c = 0.1 to 1.0) have been determined and some peculialities of the crystalline structure of I of various composition have been studied. This work was done because such data are helpful for the preparation of (errites and the understanding of changes occurring in service. If a equilibrium conditions in the reduction of I were determined in a closed various apparatus with a circulating ${\rm H_2} + {\rm H_2O}$ mixture. The equilibrium

Card 3/3

ACCESSION NR: AP4039618

oxygen pressure was calculated from the formula $p_{02}^{1/2} = K_p K_{H20}$, where K_p is the H_2O/H_2 pressure ratio in an equilibrium gas mixture and K_{H20} is the equilibrium constant of the water vapor dissociation. X-ray analysis of I and of their reduction products was carried out by the Debye method. It was shown that the oxygen pressure remains almost contant (10^{-13} atm) with an increase of the magnesioferrite content in the solid solution from 0 to 50 mol. %; the pressure increased sharply (to 10^{-11} atm) with an increase of the magnesioferrite content from 50 to 100 mol. %. The oxygen pressure dropped sharply in the course of the reduction of I by hydrogen. X-ray analysis of the solid phases formed during the reduction revealed a correlation between the oxygen pressure and the chemical characteristics of the crystals (magnesium ion fraction in the tetrahedral lattice nodes) of I. It was shown, in particular, that during the reduction the equilibrium oxygen pressure drops with a decrease in the magnesioferrite content and an increase in the magnetite content in the spinel phase and approaches, at 33% reduction, the dissociation pressure of magnetite. Orig. art. has 7 figures.

ASSOCIATION: Institut metallurgii Ural'skogo filiala AN SSSR (Institute of Metallurgy, Ural Branch, AN SSSR)

Card 2/3

ACCESSION NR: AP4039618
SUBNITTED: 03May63 DATE ACQ: 19Jun64 ENCL: 00
SUB CODE: GC, GP NO REF SOV: 004 OTHER: 014

Card 3/3

9: 1-5-16/30

AUDIOR: Showepeting, In. P.

Title: Aspherical Diffication drawing with One Plane of Dymetry I. Abstracions of an Asyhermol Grawing (Asistichaskaya diffraktsichnaya meshetha s odroy pi skotty, simmetoni, I. Abstratsil asfericheskoy reshethi)

PERIODICAL: Optika : Spermanskapiya, 1953, Val.IV, Nr.J.

pg 383-395 (USSR)

ABSPRACE: The paper deals theoretically with properties of a country reflection grating ruled on an asyherical

serface with a single plane of symmetry. It is shown that aberrations (astignatism coma, spherical

aberration) may be corrected for any two conjugate points. Post results are obtained by placing the grating on the coronaference of the Rowland circle and correction of aberration for points lying on this coronaference. The formulae obtained are suitable for analysis of properties and for calculation of aberrations of a large group of diffraction gratings, such as plane,

tylendrical spherical, elliptical, parabolic, hyper-

Ourd 1/2 bolily remaid appleanced with the or two planes of

Apphorizat Diffraction Grating vit. One Place of Jyon, ry. I.

symmetry, and other gratings, as well at for mirrors with the corresponding profiles. There are 7 figures, 6 references of which 4 are American, 1 English and 1 German.

ABSOCIATION: State Optios Enstitute limen. J.T. Varilov.

(decoder twomnyy opticheskiy unation in . S.f. Vavilova.)

SUBLITEED: April 10, 1956.

1. Diffraction gratings--Properties--Theory

Card 2/2

表现上述。(Indicated the control of the

CIA-RDP86-00513R001548820003-0

Ž

AUTHOR:

Shchepetkin, Yu.P.

Sov/51-4-4-13/24

TTTLE:

An Aspherical Diffraction Grating with One Plane of Symmetry (Asfericheskaya difraktsionnaya reshetka s odnoy phoskost'yu simmetrii) II Permissible Values of Aberrations. The Range of Application and Efficiency of an Aspherical Grating (II Dopustimyye znacheniya aberratsiy. Oblast' primen-

eniya i effetivnost' asfericheskoy reshetki)

PERIODICAL:

Optika i Spektroskopiya, 1958, Vol IV, Nr 4, pp 513 - 520 (USSR).

ABSTRACT: In the preceding paper (Part I, Ref 1), the author discussed aberrations of an aspherical grating and correction of these aberrations. The present paper is a continuation of this work. It is found that the best results are obtained by placing the grating on the circumference of the Rowland's circle and correcting for aberrations at points lying on this circle on departure from angles corresponding to the position of aberration-free points, the aberrations increase slowly. In this way, a range of angles is obtained in which practically aberration-free slit images are produced. These slit images are sharper at larger angles of incidence and diffraction for which a theoretical correction of aberrations was made. The

CIA-RDP86-00513R001548820003-0 "APPROVED FOR RELEASE: 03/14/2001

Sov/51-4-4-13/24 An Aspherical Diffraction Grating with One Plane of Symmetry

violet region, at glancing incidence and using narrow and short slits. Under these conditions, the resolving power of the apparatus is increased. The increase of the grating aperture compared with the spherical grating and correction for astigmatism makes it possible to increase the spectrum intensity by a factor of the order of 10-100. This work was carried out under the direction of Professor G.G. Slyusarev. There are 2 figures 1 table (in an appendix) and 2 Soviet, 2 English refs.

ASSOCIATION: Gosidarstvennyy opticheskiy institut im. S.I. Vavilova (State Optical Institute im. S.I. Vavilov)

SUBMITTED: A ril 10, 1956

1. Diffraction gratings-Design Card 2/2

2414.

807/51-6-6-27/34

.UTHOR:

Shehepetkin, C.P.

TITLE - .

in Rivismi's Tirole assemblace. A Vacuum Monochromator with a longave Grating and a Tirol Mirror (O nekotorykh vozmozhnostyakh napravleniva mertikaling astigmatizma v stanoskakh na okrisnnost). Rojlanda vak ummyy minokhromatik a vogmininy reshetkoy i toricheskim terkalim)

PERIODICAL: Optika i spektronkopiya, 1909, Vol. 6, Nr. 6, pp 882-884 (USSR)

AFSTRACT:

The main disadvantage of a monochromator with a concave grating, mounted together with the exit and entry slits on the circumference of Rowland's circle, is its vertical actignation. The paper describes a method of compensating for this actignation by means of a toroid mirror T (see figure A in p 003) placed in front of the entry slit S. A source of light L, the toroid mirror T and the monochromator entry slit S are all placed on the circumference of a circle with centre Og and radius Roy eyes to one half of the radius of cirvature Ryq of the meridional cook exertion of the toroid mirror (Cq is the centre of curvature of the market). Under such conditions the toroid mirror T images the source L meridionally on the entry slit S with magnification equal to 1. A diffraction grating G then proceeds an image S' with

Card 1/2

SCV/51-6-6 27/34 On Certain Persibilities of Correcting for the Vertical Astignatism in Rowland's Circle on Assemblies, A Varyon Monochromator with a Concave Grating and a Toroid Monochromator

meridional magnification equal to 1. The system as a whole produces are image of the source free of astignatism. If the angle of invidence on the grating is kept minimizant but the angle of diffraction is varied, it is still possible to compensate for astignatism: all that is necessary is to adjust the positions of the source and the toroid mirror. A monochromator of the type described above is particularly effective with a light source of small dimensions in work in the vacuum ultraviolet (glancing incidence). Intensity of radiation reaching a small receiver placed behind the exitalit of a monochromator with a toroid mirror may be greater by a factor of ten or more than the intensity of radiation leaving an ordinary monochromator without such a mirror. The arrangement described may be used also to make a spectrometer. There are I figure and 3 references. 2 of which are Seviet and 1 English.

Card 2/2

The RSheh-1 high sensitivity(Cont.)

to insure coverage of the small rock outcrop area. Since the primary purpose of the instrument is the recording of reflection spectors of rock formations from the air, while the purpose of the terrain photograph is to check the clarity of the ground being photometered, the optical systems were arranged to give primacy to the spectral system. The latter consists of 3 "Yupiter-9" lenses (focal length, 9 mm; objective lenses. Since the spit length is constant, width of the objective apercure, 1 . c/ tuneviening as condenser, collimator, and terms in section had not small length is constant, width of the terrain sector being photometered may be varied by changing the flight path altitude or by using a condenser lens with the same relative aperture and a different focal length. Length of the sector which may be photometered at one exposure depends on flight speed which may be photometered at one exposure depends on riight speed and exposure frequency. The terrain optical system consists of an ture, 1:3.5), a collector (focal length, 51.4 mm; relative aperaneous length, 40.4 mm) made of 2 planomages having a 15 v 15 mm diaphragm and meticula mounted. convex lenses having a 15 x 15 mm diaphragm and reticule mounted between them, and a turning system consisting of two lenses (2002) length, 51.0 mm) and 2 mirrors. Due to its small (1:16 to 1:22)

ACC NR: AP7001487

SOURCE CODE: UR/0436/66/000/006/0001/0007

AUTHOR: Omel'chenko, S. I.; Videnina, N. G.; Shchepetkina, N. I.; Chervetsova, I. N.

ORG: Institute of High-Molecular Compounds (Institut vysokomolekulyarnykh soyedineniy)

TITLE: Radiation polymerization of unsaturated polyester resins without monomers

SOURCE: Khimicheskaya promyshlennost' Ukrainy, no. 6, 1966, 167

TOPIC TAGS: radiation polymerization, resin, polyester plastic, polymer cross link-ing, thermal stability, hardness

ABSTRACT: The authors study the possibility of polymerizing unsaturated polyesters under the effect of high-energy radiation and compare their radiation and thermochemical cross-linking. Several structurally different polyesters were investigated: polyglycolmaleinate adipinate (PNAD), polyglycolmaleinate phthalate (PNP) and polyglycolmaleinates modified by cyclopentadiene (PNC) and anthracene (PNA-2). The specimens were poured into ampules at 90-100°C with evacuation to remove air bubbles, after which the ampules were sealed. The specimens were irradiated on a UKP-30,000 installation with a Co⁵⁰ radiation source. Exposure was done at a rate of 2020-2400 rad/sec with total doses ranging from 1 to 140 mrad at a temperature of 18-25°C. A ferrosulfate radiation monitor was used with an error of ±2%. As the radiation dosage is increased, the specimens are gradually converted from rubber-like pale yellow products to completely transparent uniformly hard brown blocks. The hardest cross-linked specimens

Card 1/2

UDC: 541.15

SHCHEPETKINA, N.I.

Strength of acetate motion-picture films at room and high temperatures. Vop.por.met. i prochn.mat. no.5:167-173

(MIRA 12:8)

(Photography--Films) (Cellulose acetates)

PHASE I BOOK EXPLOITATION

SOV/5303

- Nauchno-tekhnicheskoye soveshchaniye po dempfirovaniyu kolebaniy. Kiyev, 1958.
- Trudy Nauchno-tekhnicheskogo soveshchaniya po dempfirovaniyu kolebaniy, 17 19 dekabrya 1958 g. (Transactions of the Scientific and Technical Conference on the Damping of Vibrations, Held 17 19 December, 1958) Kiyev, Izd-vo AN UkrSSR, 1960. 178 p. 2,000 copies printed.
- Sponsoring Agency: Akademiya nauk Ukrainskoy SSR. Institut metallokeramiki i spetsial'nykh splavov.
- Editorial Board: I. N. Frantsevich, G. S. Pisarenko (Resp. Ed.), G. V. Samsonov, V. V. Grigor'yeva, and A. P. Yakovlev; Ed. of Publishing House: I. V. Kisina; Tech. Ed.: A. A. Matveychuk.
- PURPOSE: This book is intended for mechanical engineers, metallographers, physicists specializing in metals, designers, aspirants, and scientific workers.

Card 1/7

Trangactions of the	
Transactions of the Scientific (Cont.) SOV/53	03
Pisarenko, G. S. Longitudinal Vibrations of a Rod, Taking Into Account Hysteresis Losses	
	14
Pisarenko, G. S. Longitudinal Vibrations of Spiral Springs, Taking Into Account Energy Dissipation in Material	
Pisarenko G S and W T To	22
Pisarenko, C. S., and N. I. Shchepetkina [Candidate of Technical Sciences]. Transversal Vibrations of Stepped Rods, Taking Into Account Hysteresis Losses	-
200000	34
Pisarenko, G. S., and N. I. Shchepetkina, On the Calculation of Hysteresis Losses in Vibrating Plates	116
Vasilenko, N. V., [Aspirant]. Bending-and-Torsional Vibration of Rods, Taking Into Account Energy Dissipation in Material	ns
Troshchenko V m fa	58
Troshchenko, V. T., [Candidate of Technical Sciences]. Application of Methods of Mathematical Statistics to the Analysis of Energy Dissipation in Material	-
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On taking into account...

S/124/61/000/009/052/058
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gree of a small parameter. The problem of free vibrations of a
plate supported along its outline is considered as an illustration.

Abstracter's note: Complete translation

Card 2/2

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SHCHEPETKOV, A.

OSHEV, A. and SHCHEPETKOV, A. "Removal of Ergot from Rye Seed," Selektsiia i Semenovodstvo, vol. 19, no. 12, 1952, p. 71 61.9 Se5

SO: SIRA, SI 90-53, 15 December 1953

STREL'NIKOV, D.A., professor, doktor tekhnicheskikh nauk, zasluzhennyy deyatel' nauki i tekhniki; SHCHEPETKOV, A.S.

Remarks on L.D.Sheviakov's book "Mining mineral deposits"

Remarks on L.D. Sheviakov's book "Mining mineral deposits."

Ugol' 29 no.12:43-45 D'54. (MLRA 8:1)

(Mining engineering) (Sheviakov, L.D.)

EXPERIENCE, E.S., gornyy inzhoner (g. Shakhty)

Experiment in using electric locomotives for personnel transportation in slightly dipping workings, Ugol' 36 nc.11:52 H '61. (MIRA 14:11)

(Mine railroads)

THEHEPTIKEV, I. V.

Otsenka effektivnosti samoleta. (Tekhnika vozdushnogo flota, 1945, no. 10, p. 19-20)

Title tr.: Evaluation of the efficiency of an airplane.

TL504.T4 1945

So: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

KOZIOVSKIY, B.V., inzh.; GULIDA, E.N., inzh.; SHCHEPETKOV, V.V., inzh.

Methods for machining ball joints of locomotive parts and their economic efficiency. Mashinostroenie no.62100-102 N-D '62.

(MIRA 16:2)

1. Luganskiy teplovozostroitel'nyy zavod im. Oktyabr'skoy revolyutsii.

(Lugansk-Locomotive works)

PRAVOTOROVA, G.A.; SHCHEPETKOVA, L.V.

Mapping land resources in Italy. Izv. AN SSSR. Ser. geog. no.1: 135-139 Ja-F '64. (MIRA 17:3)

85713 s/079/60/030/008/010/012/XX BOO1/BO66 Razuvayev, G. A. Vyazankin, N. S. and Shchepetkova. 2209, 1153, 1273 Thermal Decomposition of Lead Tetraethyl Hexaethyl. diplumbane, and Their Analogs, III. Reactions of the 5.3700 Homolytic Decomposition of Hexaethyl-diplumbane and AUTHORS -Zhurnal obshchey khimii, 1960, Vol. 30, No. 8, pp.2498-2506 TITLE. Hexaethyl-distannane TEXT: The authors pointed out in Refs. 2 that the thermal decomposition THALL THE AUTHORS POINTED OUT IN REIS, A that the thermal decompt of liquid lead tetraethyl takes place through the formation of less athulated compounds such as hoverthyl dislumbers and lead distance athulated compounds. of inquire read sectratings takes place through the formation of less ethylated compounds, such as hexaethyl-diplumbane and lead diethyl; PERIODICAL: $(c_2H_5)_4^{Pb} \longrightarrow (c_2H_5)_6^{Pb}_2 \longrightarrow (c_2H_5)_2^{Pb} \longrightarrow Pb$. It is however, very doubtful whether a continuous homolytic cleavage of the d-bonds takes place in this course of reaction. In order to obtain a complete and well-founded scheme of decomposition, it will be necessary to know the reactions of the beneme or decomposition, it will be necessary to know the reactions of homolytic cleavage of lead tetraethyl and of its intermediates formed card '/3

Thermal Decomposition of Lead Tetraethyl, Hexaethyl-diplumbane, and Their Analogs III Reactions of the Homolytic Decomposition of Hexaethyl-diplumbane and Hexaethyl-distannane

S/079/60/030/008/010/012/XX B001/B066

during decomposition, as well as the role played by free radicals in these conversions. The investigation of the homolytic cleavage of hexaethyl-diplumbane and its organotin analog (hexaethyl-distannane) is therefore, highly important. In the smooth reaction of hexaethyl-distannane with dibromo ethane giving rise to tin triethyl-bromide and ethylene (Ref. 3), the reactants had been assumed to form a cyclic transition complex which split in a homopolar way. To study the possible appearance of such ring complexes also in other reactions of hexaethyl-distannane, it was allowed to react with compounds in a benzene solution, which readily decompose into radicals. Hexaethyl-distannane and diplumbane were found to decompose homolytically at the metal-metal bond when treated with labile organic compounds in a benzene solution at a normal temperature. These labile compounds included benzoyl peroxide, acetyl-benzoyl peroxide, cyclohexyl percarbonate, azo-isobutyric acid dinitrile, nitroso-acetanilide, and lead tetraacetate. The reactions are assumed to proceed through the formation

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"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001548820003-0

Thermal Decomposition of Lead Tetristhyl, Hexaethyl-diplumbane, and Their Analog \cdot , III. Reactions of the Homolytic Decomposition of Hexaethyl-diplumbane and Hexaethyldistannane

\$/079/60/030/008/010/012/XX B001/B066

of hemolytically decomposing ring complexes. The solvent participates in the reaction of hexaethyl-stannane with the above compounds in CC1 whereby, in addition to other reaction products, also tin triethyl4 chloride results. The formation of the latter is initiated by the reaction of CCl₄ with the labile compound. Nitroso-acetanilide reacts at a normal temperature with CCl_4 , bromo-ethyl, benzyl chloride, and the methyl ester of chloro-acetic acid to give phenyl diazonium chloride and bromide, acetic acid, and trace amounts of diphenyl. There are 13 references:

ASSOCIATION: Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete (Scientific Research Institute of Chemistry at Gor kiy State University)

SUBMITTED:

July 21, 1959

Card 3/3

15 8114 2205, 1372, 1-107

\$/079/61/031/004/006/006 B118/B208

AUTHORS:

Razuvayev, G.A., Shchepetkova, O.A., and Vyazankin, N.S.

TITLE :

Structure of some organc-tin polymers

PERIODICAL: Zhurnal obshchey khimii, v. 31, no. 4, 1961, 1401

TEXT: It was previously found (Ref. 2: ZhOKh., 30: 2498 (1960)) that benzoyl peroxide cleft the Sn bond in hexaethyl distannane even under mild conditions: $(C_6H_5COO)_2+(C_2H_5)_3Sn-Sn(C_2H_5)_3\longrightarrow 2(C_2H_5)_3Sn0COC_5H_5$. This reaction could be applied to the structural analysis of organi-tin compounds. This reaction takes place even at room temperature without separation of CO_3 and

gaseous hydrocarbons. This indicates the absence of side reactions, so that only the Sn-Sn bond in the polymer, and the C-O bond in the perexide are cleft. The authors of the present paper isolated the benzoate of triethyl tin (I) and the dibenzoate of diethyl tin (II) (melting point 122-123°C) by reacting the peroxide with the polymer. Besides, metallic

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S/079/61/031/004/004/006 B118/B209

Structure of some organo-tin ...

tin and the tribenzoate of ethyl tin (III) (melting point 185-188°C unier decomposition) were separated. If the polymer were of the linear type $(C_2H_5)_3Sn-[Sn(C_2H_5)_2]-Jn(C_2H_5)_3$, only the formation of compounds (I) (from primary tin atoms) and (II) (from secondary tin atoms) would have to be expected, provided that no disproportionation of compound (II) to II) and (III) takes place. It was found from the quantitative ratio of the reaction products that 23.6% of the tin atoms have primary, 19.9% secondary, and 27.6% tertiary character. 28.8% of the metal atoms in the polymer mass were in the elementary state. It is possible that metallic tin is formed from quaternary atoms. The results obtained correspond to earlier concepts on the branching of chains in intermediates of disproportionations of hexaethyl distannane (Ref. 12 DAN SSSE, 132, 364 (1960)), and of hexaethyl diplumbane (Ref. 32 ZhOKh, 30, 1310 (1960)). There are 3 Soviet-bloc references.

ASSOCIATION *

Nauchno-issledcvateliskiy institut khimii pri Gorikovskom gosudarstvennom universitete imeni N.I. Lobachevskogo (Scientific Research Institute of Chemistry Gorikiy State University imeni N.I. Lobachevskiy)

Card 2/3

S/0.79/61/0.51/604/006/00f
Structure of some organo-tin ...
SUBMITTED: November 4, 1960

Card 3/3

VYAZANKIN, N.S.; SHCHEPETKOVA, O.A.

Reactions of nitrosoacetanilide with certain acid chlorides. Zhur. ob.khim. 30 no.10:3417-3421 0 '61. (MIFA 14:4)

l. Nauchno-issledovatel¹skiy institut khimii pri Gor¹kovskom gosudarstvennom universitete.

(Acetanilide) (Chlorides)

RAZUVAYEV, G.A.; VYAZANKIN, N.S.; SHCHEPETKOVA, O.A.

Mechanism of the reaction of hexaethyldistannane disproportionation. Zhur. ob. khim. 31 no. 11:3762-3768 N ¹61. (MIRA 14:11)

l. Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete imeni N.I. Lobachevskogo.

(Tin compounds)

S/020/61/137/003/022/030

5.3700

AUTHORS:

2209

Razuvayev, G. A., Corresponding Member AS USSR,

D'yachkovskaya, O. S., Vyazankin, N. S., and Shchepetkova,

O. A.

TITLE:

Reactions of acyl peroxides with organic derivatives of

lead, tin, and silicon

PERIODICAL:

Doklady Akademii nauk SSSR, v. 137, no. 3, 1961, 618-621

TEXT: The authors discuss and compare the reactions of benzoyl peroxide (BP) and acetylbenzoyl peroxide (ABP) with organic derivatives of tin, lead, and silicon without solvent and under exclusion of atmospheric oxygen. They believe that the σ -bond may be ruptured at the same time according to two mechanisms in the case of the organotin compound:

1) via formation of an active complex, 2) via formation of kinetically independent particles. In this way, the number of end products increases. As the reactions discussed (Table 1) take place only at elevated temperatures, the authors assume that these reactions may be due to decomposition of peroxides: $C_6H_5COOCCOR \longrightarrow C_6H_5COO^\circ + RCOO^\circ$ (1), where $R = C_6H_5$ or CH_3 ;

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Reactions of acyl peroxides ...

S/020/61/137/003/022/030 B103/B208

 $C_6H_5C00^{\circ} \longrightarrow C_6H_5^{\circ} + C0_2$ (2). The latter, however, is of minor importance. The resultant free benzoyloxy radicals react with organotin compounds, with substitution of benzoate radicals for the ethyl radicals in the latter: $C_6H_5COO + (C_2H_5)_3SnX \longrightarrow (C_2H_5)_2SnX(OCOC_6H_5) + C_2H_5 \cdot (3)$. Here and henceforward, $X = C_2H_5$, Cl, Br, C_6H_5C00 . The results of experiments 1-4 indicate that the nature of X affects the course of (3) only little. In the case X = Cl and Br, the authors isolated only diethyl tin dibenzoate and diethyl tin dihalide, apparently owing to disproportionation: $2(C_2H_5)_2SnX(OCOC_6H_5) \longrightarrow (C_2H_5)_2SnX_2 + (C_2H_5)Sn(OCOC_6H_5)_2$ (4). The free ethyl radicals resulting in (3) disproportionate and are slightly $2C_2H_5^{\circ} \longrightarrow C_2H_6 + C_2H_4$ (5); $2C_2H_5^{\circ} \longrightarrow n-C_4H_{10}$ (6). The dimerized: low total amount of gaseous hydrocarbons (less than 1 mole per mole of decomposed peroxide; experiments 1-4) suggests that the ethyl radicals initiate PB decomposition and give ethyl benzoate (experiment 4). In this way, the authors explain the formation of all products confirmed on the basis of a scheme of free-radical interaction. As, however,

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S/020/61/137/003/022/030 B103/B208

Reactions of acyl peroxides ...

ethylbenzoate may likewise be formed by a reaction with the active complex

$$(C_{1}H_{3})_{3}SnX \longrightarrow (C_{2}H_{3})_{3}SnX \longrightarrow (C_{3}H_{3})_{3}SnX(OCOC_{6}H_{3}) + C_{6}H_{3}COOC_{3}H_{3}$$

$$C_{6}H_{3} - C \longrightarrow O - C - C_{6}H_{3}$$

$$(B) \longrightarrow (C_{3}H_{3})_{3}SnX(OCOC_{6}H_{3}) + C_{6}H_{3}COOC_{3}H_{3}$$

$$(B) \longrightarrow (C_{3}H_{3})_{3}SnX(OCOC_{6}H_{3}) + C_{6}H_{3}COOC_{3}H_{3}$$

the authors studied the interaction of ABP with tetraethyl tin and triethyl tin chloride (experiments 5 and 6). They conclude from the resultant reaction products that in this case the afore-mentioned modes (1 and 2) of homolytic rupture of the covalent bond occurred. The reaction of BP with tetraethyl lead (experiment 7) does not essentially differ from the one discussed above. Here, (2) is almost insignificant. The reaction of acyl peroxides with tetraethyl silane (experiments 6 and 9) proceeds quite differently; here, processes of the kind of (3) and (8) are missing, the Si-C bond being obviously stable to homolytic rupture. The initial stage of these reactions is assumed to be based upon decomposition of acyl peroxides according to (1), (2), and CH₃COO· — CH₃· + CO₂ (9).

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Reactions of acyl peroxides ...

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The resultant free radicals remove the hydrogen from the tetraethyl silane molecules to give benzoic acid, benzene, and methane. Complex organosilicon compounds with two or more silicon atoms in the molecule are formed by recombination of the secondary radicals. They will be later described. $^{\rm C}$ 16 $^{\rm H}$ 38 $^{\rm Si}$ 2 is given as an example. The reactions of similar organotin and organosilicon compounds with peroxides being considerably different, the authors studied the interaction of BP with the organotin analog of trimethyl-phenyl silane (experiment 10). No gaseous hydrocarbons were formed in this case and CO, yield was low. The authors conclude from this that (2) is only a side reaction, and that no CH3 radicals are Trimethyl tin benzoate, on displaced by benzoate radicals in this case. $(CH_3)_3$ SnOH + C_6H_5 COOH \longrightarrow the other hand, is obtained in a high yield: \rightarrow (CH₃)₃SnOCOC₆H₅ + H₂O (10). This indicates that the σ bond between the benzene ring and the metal atom in the trimethyl-phenyl tin molècule is most strongly subjected to homolytic cleavage. Since only 0.1 mole of diphenyl per mole of decomposed peroxide is formed, no analogy with the interactions between BP and trimethyl silane has been

Card 4/8

S/020/61/137/003/022/030 B103/B208

Reactions of acyl peroxides ...

established. In the reaction of BP with triethyl silane (experiment 11), mainly the Si-H bond is cleft, giving triethyl silicon benzoate as the most important silicon-containing product. In this case, apparently also processes take place which remind of (3), since small quantities of ethane, ethylene, and butane result. The authors continue their studies. There are 1 table and 3 references: 1 Soviet-bloc and 2 non-Soviet-bloc. The reference to the English-language publication reads as follows: Ref. 1, L. Jaffe, E. J. Prosen, M. Szwarc, J. Chem. Phys., 27, 416 (1957).

ASSOCIATION:

Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom

gosudarstvennom universitete im. N. I. Lobachevskogo (Scientific Research Institute of Chemistry, Gor'kiy

State University imeni N. I. Lobachevskiy)

SUBMITTED:

November 9, 1960

Card 5/8

S/020/61/137/003/022/030 B103/B208

Reactions of acyl peroxides ...

Legend to Table 1: 1) number of experiment, 2) used, moles (NE - benzoyl peroxide, NAE - acetyl benzoyl peroxide), 3) temperature, °C; 4) time, hr; 5) reaction products, moles per mole of peroxide; 6) other products; 7) trace amounts.

Card 6/8

Reactions		cyl peroxides			(17)		•			/022/030	
Table 1	Onlerta (S)	Реакция перекиси бензоила (ПБ) Вэнто в реакцию, молей	н вцетил Т-ра. °С	Про- долж.,	со.	CII	C.II.	© п	родукты		
	· 沒 2 3 4 5 6 7 8 9 10 11	0,010 ΠΒ; 0,20 (C ₁ H ₆) ₆ Sn 0,015 ΠΒ; 0,15 (C ₂ H ₆) ₅ SnCl 0,015 ΠΒ; 0,16 (C ₂ H ₆) ₅ SnBr 0,010 ΠΒ; 0,014 (C ₂ H ₆) ₆ Sn OCOC ₆ H ₆ 0,015 ΠΑΒ; 0,22 (C ₂ H ₆) ₆ Sn 0,010 ΠΑΒ; 0,16 (C ₆ H ₆) ₅ SnCl 0,005 ΠΒ; 0,10 (C ₆ H ₆) ₆ Pb 0,010 ΠΒ; 0,17 (C ₄ H ₆) ₆ Sl 0,0125 ΠΑΒ; 0,20 (C ₆ H ₆) ₆ Sl 0,015 ΠΒ; 0,10 (CH ₆) ₆ SnC ₆ H ₆ 0,015 ΠΒ; 0,10 (CH ₆) ₆ SnC ₆ H ₆	95—97 95—97 95—97 95—97 80—97 80 95—97 80—97 95—97	16 16 5.5 4 3.5 16 8	0.20 0.14 0.15 0.06 0.61 0.58 0.04 1.18 1.34 0.12	0,48	0,26 0,45 0,44 0,29 0,13 0,38 0,92 	0.55 0.37 0.24 0.16 0.54 0.40 0.38 —	0,02 0,01 0,01 		X
Card 7/8							•				

Reactions of acyl peroxides	. 21570 s/020/61/137/003/022/030 B103/B208 Таблица 1					
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	реакции (1), молей на 1 моль перекиси					
	() другие-продукты					
Table 1 CONT.	0,66 (C ₂ H ₄) ₄ Sn OCOC ₆ H ₆ ; 0,37 (C ₂ H ₆) ₂ Sn (OCOC ₆ H ₆) ₂ . 0,76 (C ₂ H ₆) ₂ Sn (OCOC ₆ H ₅) ₂ . 0,63 (C ₂ H ₆) ₂ (SnCl ₂					
,	0.71 (C ₂ H ₄) ₂ Sn (OCOC ₆ H ₄) ₂ °; 0.50 (C ₂ H ₄) ₃ SnBr ₂					
	0,50 (C ₂ H ₃) ₂ Sn (OCOC ₂ H ₃) ₃ *: 0,29 C ₄ H ₄ COOC ₂ H ₃ 0,42 (C ₂ H ₁) ₂ Sn OCOCH ₁ ; 0,43 (C ₂ H ₃) ₂ Sn OCCO ₂ H ₄					
	0,34 (C ₂ H ₄) ₂ Sn (OCOC ₄ H ₃) ₂ °; 0,31(C ₂ H ₃) ₂ SnCl ₂ °					
•	0,60 (C ₃ H ₃), PbOCOC ₃ H, 0,90 C ₄ H ₄ ; 0,53 C ₄ H ₄ COOH; 0,33 C ₄₄ H ₃₄ SI ₂ F					
	0,78 C ₆ H ₆ : 0,23 C ₆ H ₆ COOH; 0,33 C ₁₆ H ₁₆ : Si ₆ *					
	1,00 C,He; 0,11 C,He-C,He; 1.30 (CHe), SnOCOC,He					
·	1,18 C _t H _s COOH; 0,60 (C _t H _s) _s SIOCOC _t H _s					
Card 8/8						

VYAZANKIN, N.S.; RAZUVAYEV, G.A.; D'YACHKOVSKAYA, O.S.; SHCHEPETKOVA, O.A.

Reaction of benzoyl peroxide with triethylalkoxytin compounds.

Dokl. AN SSSR 143 no.6:1348-1350 Ap '62. (MIRA 15:4)

 Nauchno-issledovatel'skiy institut khimii pri Gor'kovskom gosudarstvennom universitete im. N.I.Lobachevskogo. 2. Chlenkorrespondent AN SSSR (for Razuvayev). (Benzoyl peroxide) (Tin organic compounds)

SHCHEFEINEY, F. Ye. -- "Agrobiological Evaluation of Types of Winter Mneat Depending on Their Nutrition." Min Higher Education USSR.
Kishinev Agricultural Inst imeni M. V. Frunze. Kishinev, 1955.
(Dissertation for the Degree of Candidate in Agricultural Sciences).

So.: Knizhnaya Letopis', No. 6, 1956.

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Okhatsimskaya, M.V., Rastrusin, Tu.B., Rokityanskiy, I.I., Shchep-AUTHORS:

etnov, R.V.

Regularities in the excitation of short-period oscillations in mid-TITLE:

dle latitudes

Referativnyy zhurnal, Geofizika, no. 8, 1961, 42, abstract 8G280 (V PERIODICAL:

sb. "Korotkoperiod. kolebaniya elektromagnitn. polya Zemli, no. 3",

Moscow, AN SSSR, 1961, 17 - 22, English summary)

The study of short-period estillations of telluric currents during TEXT: the IGY was carried out at stations of the Institut fiziki Zemli AN SSSR (Institute of Physics of the Earth, AS USSR) (Borok, Alma-Ata, Fetropavlovsk-Kamchatskiy, and Alushta). These investigations made it possible to detect a number of common regularities of short-period escillations in middle latitudes. There are two basically different types of short-period oscillation: namely, stable oscillations, pc, with $T \sim (15 \div 40)$ sec and train-type oscillations, pt, with $T \sim (50 \div 90)$ sec. The maximum number of pc cases occurs at local midday, and pt at local midnight, independent of the longitude of the station.

Card 1/2

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Regularities in the excitation ...

diurnal run of pe is asymmetric and has a bread maximum around midday. The increase of pe amplitudes occurs 1.5 times more quickly than their damping. A somewhat increased pe number was observed in summer as compared to the winter. The diurnal pt run has a sharp maximum around local midnight. Seasonal variability was not observed for pt. Amplitudes of short-period oscillations in middle latitudes are low, being fractions of a unity and a few my/km for pc, and several my/km for pt. There are indications of a tendency for increased short-period oscillation amplitudes at seaside stations. Previous concepts on the dependence of pc and pt on universal time were explained as follows: a comparison was made of the diurnal run of short-period oscillations on stations located close in the longitude; a comparison was made of unclear maxima obtained from a small number of cases. This did not permit the detection of the longitudinal effect of maximum shift even for substantially remote stations; moreover, there are oscillations, in both modes, correlated with universal time, which occur seldom but are very intensive.

K. Zybin

[Abstracter's note: Complete translation]

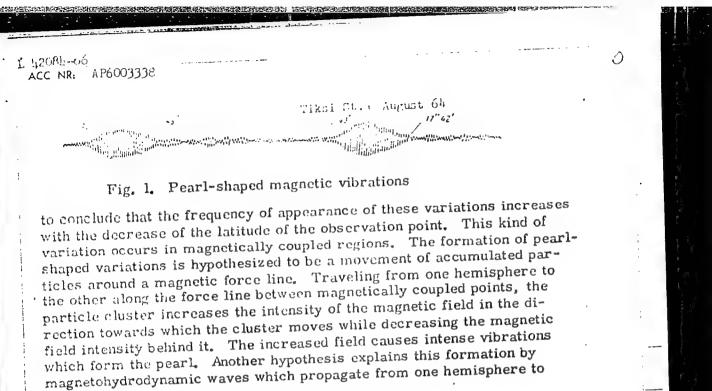
Card 2/2

TROITSKAYA, V.A.; SHCHEPtibu., N./.

Relationship between cycles of solar activity and the intensity and frequency of inducing brief variations in the earth's electromagnetic frequency of inducing brief variations (MIRA 16:10) field. Prikl. geofiz. no.37:95-101 '63.

SOURCE CODE: UR/0387/66/000/001/0076/0079 **应有(1)** AP6003338 ACC NR: AUTHOR: Troitskaya, V. A.; Shchepetnov, R. V.: Bol'shakova, O. V.; Matveyeva, E. T. ORG: Institute of Physics of the Earth, AN SSSR (Institut fiziki Zemli AN SSSR) TITLE: Characteristic properties of rapid variations of the Earth's electromagnetic field in the polar regions SOURCE: AN SSSR. Izvestiya. Fizika Zemli, no. 1, 1966, 76-79 TOPIS TAGS: electromagnetic terrestrial field, electromagnetic field variation, sclar activity, pearl shaped variation, stable variation, polar region, magnetic storm, irregular variation, aurora, magnetically coupled region, magnetic force line, proton, solar cycle ABSTRACT: During the IGY short-period variation measurements of the electromagnetic field in the polar regions of the Soviet Union were carried out at five Arctic stations (Kheys Island, Barentsburg, Cape Chelyuskin, Tiksi Bay, and Lovozero) and in Antarctica (Mirnyy and Oazis). Analysis of data obtained showed that the properties of the polar regions are associated with the cycle of solar activity. Especially rapid irregular variations of type Pil and the frequency of excitation of pearl-shaped variations Pc1 depend upon the solar cycle. The daily rate of these variations differs from those at middle latitudes. Soviet observatories noted giant pulsations of types 550.385.3 Card 1/4

1. 1,2081,-16 TACC NR: AP6003338 Pg and Lpc in the polar regions. Simultaneous excitations of stable variations occur in the polar regions during equinoxes and very seldom Regular stable variations are typical of polar and other latitudes. during solstices. Stable variations of type Lpc occur mostly in the polar regions. Their vibrations last 3-7 min. This type of variation takes place in middle latitudes only in magnetic storms, appearing mostly at noon. Rapid irregular variations of type Pil occur with high intensity in the auroral mone where their amplitude reaches hundreds of mv/km. The amplitude of Pil variations diminishes rapidly to the north and south of the auroral zone. This type of variation occurs before midnight and in the morning hours. The Pil-type variations are very much associated with auroras. The appearance of these variations testifies to the development of auroral processes in the upper atmosphere. Special interest was aroused by the pearl-shaped variations. Figure 1 shows this type of variation which was obtained on 6 August 1964 at Tiksi Station. Long-term records at USSR observatories made it possible. Card 2/4



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the other.

Card 3/4

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Experimental simultaneous observations were carried out in two magnetically coupled points, Sogra'in the USSR and on the French island of Kergelen in the Indian Ocean. Processing of recorded data led to the following conclusions: 1) Maxima of individual pearls in opposite hemispheres are shifted by a half-period. Periods of envelopes over the pearls are preserved in both hemispheres. 2) No delay in phases was observed when the movement was from east to west. 3) Periods of pearl formation in coupled regions are equal. These data cannot be considered as a support of either the first or the second hypothesis.

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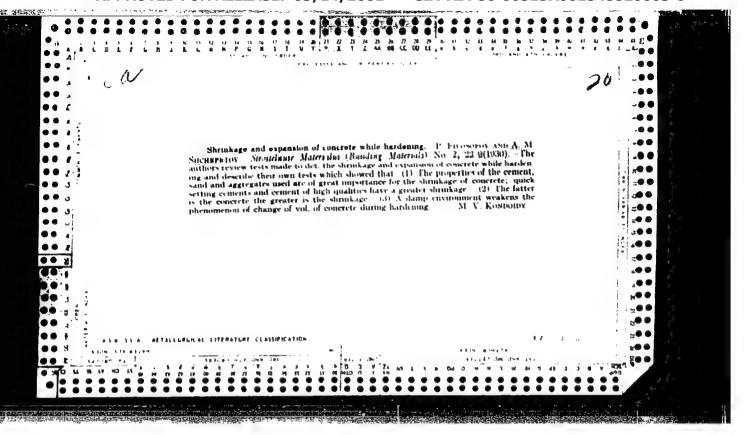
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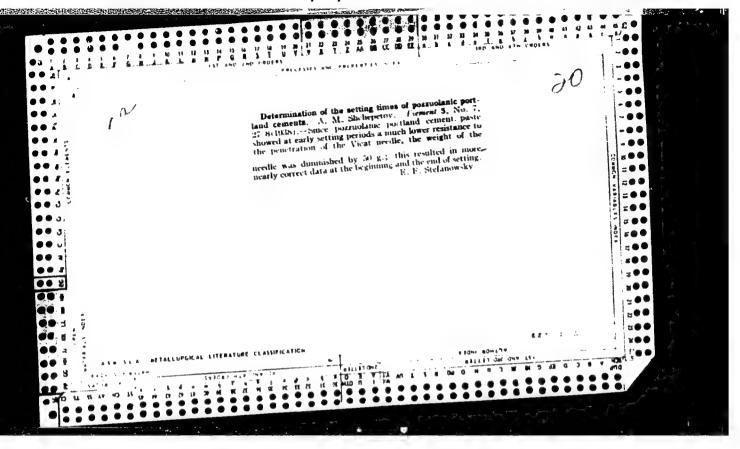
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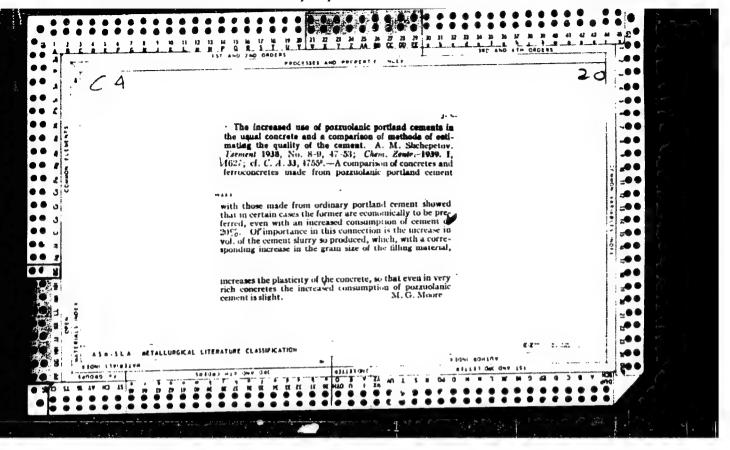
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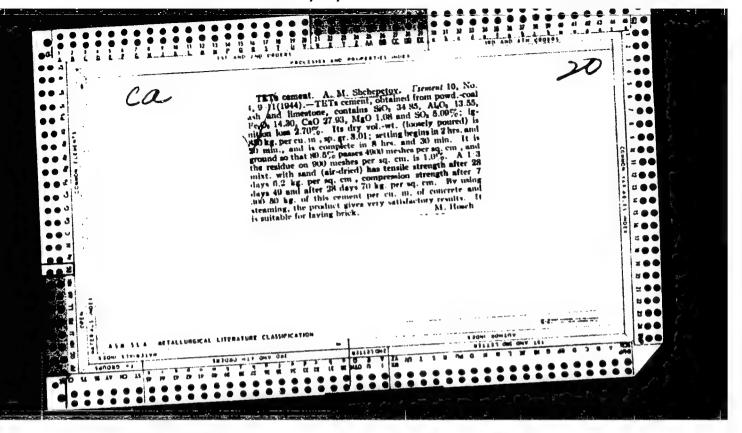
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A.I., kand.tekhn.nauk; SHEMNITSIS, A.A., kend.tekhn.nauk; SHCMEPTOV,
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